

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 29985	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/SI 03/ 00009	International filing date (day/month/year) 17/03/2003	(Earliest) Priority Date (day/month/year) 26/03/2002
Applicant KRKA TOVARNA ZDRAVIL, D.D., NOVO MESTO		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

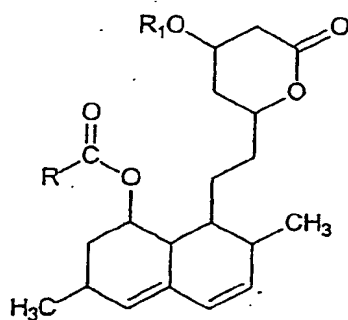
INTERNATIONAL SEARCH REPORT

International application No.

PCT/SI 03/00009

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A process for the preparation of inhibitors of HMG-CoA reductase, such as simvastatin, from 4-silyloxytetrahydropyran-2-ones with triethylamine trihydrofluoride being used as the desilylation reagent is described. The reaction is performed in organic solvents, a mixture thereof or without solvents. It is characteristic of this reaction that no additional impurities are obtained and that it takes place without the use of additional catalysts and with low excesses of the reagent.



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International Application No

PCT/SI 03/00009

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D309/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 349 063 A (MERCK & CO INC) 3 January 1990 (1990-01-03) cited in the application claim 7	1-10
A	EP 0 331 240 A (MERCK & CO INC) 6 September 1989 (1989-09-06) cited in the application page 11, line 43 - line 45 page 14, line 29 - line 40	1-10
A	WO 00 46217 A (RU & CCARON ;ZCARON (SI); LEK PHARMACEUTICALS AND CHEMIC (SI)) 10 August 2000 (2000-08-10) cited in the application claim 1	1-10
A	examples 1-3	11
-/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of the actual completion of the international search

25 July 2003

Date of mailing of the international search report

08/08/2003

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/SI 03/00009

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01 45484 A (CHONG KUN DANG PHARMACEUTICAL ; SHIN HEE JONG (KR); CHO DONG OCK (K) 28 June 2001 (2001-06-28) cited in the application page 16, line 8 - line 12 page 13, line 8 - line 11 ---	1-10 11 1-10
A	PICQ D ET AL: "utilisation du complexe triéthylamine-acide fluorhydrique pour la synthèse de désoxyfluoropyranosides et la scission de groupes silylés substitués" CARBOHYDRATE RESEARCH, vol. 166, 1987, pages 309-313, XP009013241 NL cited in the application page 311, paragraph 2 ---	1-10 1-10
A	HAUFER G: "triethylamine trishydrofluoride in synthesis" JOURNAL FÜR PRAKTISCHE CHEMIE CHEMIKER-ZEITUNG, vol. 338, 1996, pages 99-113, XP009013259 DE cited in the application page 99 page 111 -----	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/SI 03/00009

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0349063	A	03-01-1990	US 4921974 A	01-05-1990
			US 4963538 A	16-10-1990
			AT 127798 T	15-09-1995
			AU 619563 B2	30-01-1992
			AU 3711689 A	04-01-1990
			CA 1328876 C	26-04-1994
			CN 1039023 A	24-01-1990
			DE 68924205 D1	19-10-1995
			DE 68924205 T2	28-03-1996
			DK 319989 A	02-01-1990
			EP 0349063 A2	03-01-1990
			FI 893004 A	30-12-1989
			HU 50803 A2	28-03-1990
			JP 2053752 A	22-02-1990
			NO 892677 A	02-01-1990
			NZ 229671 A	26-11-1991
			PT 90958 A ,B	29-12-1989
			ZA 8904895 A	28-03-1990
			US 5130306 A	14-07-1992
EP 0331240	A	06-09-1989	US 4894466 A	16-01-1990
			EP 0331240 A2	06-09-1989
			JP 1308271 A	12-12-1989
WO 0046217	A	10-08-2000	SI 20159 A	31-08-2000
			AU 2124100 A	25-08-2000
			EP 1149086 A1	31-10-2001
			WO 0046217 A1	10-08-2000
			JP 2002536372 T	29-10-2002
			US 6509479 B1	21-01-2003
WO 0145484	A	28-06-2001	WO 0145484 A2	28-06-2001
			AU 3775201 A	03-07-2001